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File E63614  
Project 96SC13535

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REPORT

ON

COMPONENT - MOTOR CONTROLLERS, MAGNETIC

Fujitsu Takamisawa  
Tokyo, Japan

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LO/RM:lso  
SCDLS

## DESCRIPTION

## PRODUCT COVERED:

Component - Magnetic, Motor Controllers, Type H1, with or without prefix FTR-, followed by C or A, followed by A or D, followed by 005-048, followed by V or T, may be followed by -01 through -99.

## GENERAL:

The device is open-type magnetically operated, single-pole, double-throw relays with dc operating coil and with normally open and normally closed contacts. Some of the devices have single-pole, single-throw contact arrangement with normally open contact. The device is provided with terminals for direct printed circuit mounting.

They are intended for use in industrial control equipment or temperature indicating and regulating equipment.

Contact -

\*For Types FTR-H1CA ( ) V, FTR-H1AA ( ) V, FTR-H1AA ( ) T:

10 A	30 V dc	Resistive	30,000 cycles
* 10 A	30 V dc	Resistive	100,000 cycles (1 form A only)
10 A	250 V ac	Resistive	75,000 cycles (1 form A only)
10 A	250 V ac	Resistive	100,000 cycles (1 form C only)
1/3 HP	125 V ac		30,000 cycles (N.O. only)
1/3 HP	125 V ac		1,000 cycles (N.C. contact only)
1/2 HP	250 V ac		30,000 cycles
TV5			25,000 cycles (Models with Suffix T only)
*Pilot Duty, Code B300			30,000 cycles

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Coil -

5 V through 48 V dc.

\*For Types FTR-H1CD ( ) V, FTR-H1AD ( ) V:

10 A	30 V dc	Resistive	6,000 cycles
10 A	250 V ac	Resistive	6,000 cycles
1/3 HP	125 V ac		1,000 cycles
1/2 HP	250 V ac		1,000 cycles
Pilot Duty, Code B300			6,000 cycles
250 V/0.27 A, Pilot Duty,			6,000 cycles
2.5 A, Thermal Continuous Current			

## NOMENCLATURE:

The significance of the alphanumeric marking system is explained as follows:

Part No.	<u>FTR-H1</u>	<u>C</u>	<u>A</u>	<u>005</u>	<u>V</u>	<u>-01</u>
	I	II	III	IV	V	VI

Note: Part number may be split and appear on two lines.

- I. Type H1, with or without prefix "FTR-".
- II. Contact configuration.
  - C - 1 Form C
  - A - 1 Form A
- III. Coil sensibility.
  - \* A - General
  - \* D - High sensitive, only for general (V) position V of nomenclature.
- IV. Rated coil voltage.
  - 005-048 - 5 through 48 V dc
- V. Indicates contact rating.
  - V - General
  - T - TV rated
- VI. Indicates minor construction variations.
  - 01 to -99 - Additional two digits used for special variation of construction as below.
    - A. Variation of coil resistance.
    - B. Variation of pick-up voltage, non-pick-up voltage, drop-out voltage, or hold voltage.
    - C. Variation of operate or release time.
    - D. Variation of rated coil voltage within 5 through 48 V dc.

## ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

\* Evaluated for use in temperature indicating and regulating applications.

## Conditions of Acceptability -

1. These devices should be used within their Recognized ratings as specified above.
2. Open-type devices should be mounted in enclosures having adequate strength and thickness and in the intended manner and with acceptable spacings being provided.
3. The PWB terminals are not suitable for field wiring.